



# GT series

## GT series 105°C Miniaturized, Long life

### Features

- ◆ Long life: 105°C 10000 hours
- ◆ RoHS Compliance.

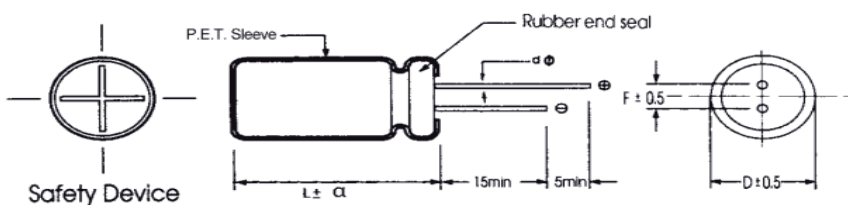
### Specifications

Item	Performance Characteristics																
Operating Temperature Range	-40 to +105°C																
Rated Voltage Range	10~100 V.DC																
Capacitance Tolerance	±20% (120Hz, +20°C)																
Leakage Current(+20°C, max.)	I ≤ 0.01CV or 3uA whichever is greater. (After 2 minutes) I=Leakage Current(uA) C=Rated Capacitance V=Rated voltage (V)																
Dissipation Factor (tanδ, at 20°C, 120Hz)	<table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Working Voltage(VDC)</td> <td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>100</td> </tr> <tr> <td style="padding: 2px;">D.F. (%)max.</td> <td>45</td><td>35</td><td>30</td><td>22</td><td>19</td><td>17</td><td>15</td> </tr> </table>	Working Voltage(VDC)	10	16	25	35	50	63	100	D.F. (%)max.	45	35	30	22	19	17	15
	Working Voltage(VDC)	10	16	25	35	50	63	100									
D.F. (%)max.	45	35	30	22	19	17	15										
Low Temperature Characteristics (at 120Hz)	Impedance ratio max <table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Working Voltage(VDC)</td> <td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>100</td> </tr> <tr> <td style="padding: 2px;">Z-25°C / Z+20°C</td> <td>10</td><td>8</td><td>6</td><td>6</td><td>5</td><td>5</td><td>5</td> </tr> </table> For capacitance > 1000uF, add 1 per another 1000uF for -40°C/+20°C	Working Voltage(VDC)	10	16	25	35	50	63	100	Z-25°C / Z+20°C	10	8	6	6	5	5	5
Working Voltage(VDC)	10	16	25	35	50	63	100										
Z-25°C / Z+20°C	10	8	6	6	5	5	5										
Endurance	Duration time : 10000Hrs Ambient temperature : +105°C Applied voltage : Rated DC working voltage After test requirement at +20°C Capacitance change : with ±25% of the initial measured value Dissipation factor : ≤ 300% of the initial specified value Leakage current : ≤ The initial specified value																
Shelf Life	Test condition Duration time : 1000Hrs Ambient temperature : +105°C Applied voltage : None After test requirement at +20°C: Same limits as Endurance. Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes.																

### Multiplier for Ripple Current vs.

CAP(uF) / Frequency(Hz)	120	1K	10K	100K ≦
1~10uF	0.42	0.60	0.80	1.00
22~33uF	0.55	0.75	0.90	1.00
47~330uF	0.70	0.85	0.95	1.00

### Diagram of Dimensions: (unit:mm)



Dφ	5.0	6.3	8
F	2.0	2.5	3.5
dφ	0.5		L < 20
			L ≥ 20
α	L ≤ 16: α = 1.5		

## Case Size

WV (Vdc)	Cap (uF)	Size mm	Rated Ripple current (Arms/105°C /100KHz)
10	100	5×11	140
10	220	6.3×11	220
10	330	8×11.5	340
16	47	5×11	140
16	100	6.3×11	220
16	220	8×11.5	340
25	33	5×11	140
25	47	5×11	140
25	100	6.3×11	220
35	33	5×11	90
35	47	6.3×11	220
35	100	8×11.5	340
50	1	5×11	26
50	2.2	5×11	36
50	3.3	5×11	75
50	4.7	5×11	85
50	10	5×11	95
50	22	5×11	140
50	33	6.3×11	200
50	47	6.3×11	200
50	100	8×11.5	280
63	10	5×11	85
63	22	6.3×11	180
63	33	6.3×11	180
63	47	8×11.5	250
100	1	5×11	40
100	2.2	5×11	50
100	3.3	5×11	60
100	4.7	5×11	70
100	10	6.3×11	150
100	22	8×11.5	230